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10/523,101	02/01/2005	Liliana Bagala' Rampazzo	09931-00035-US	8413	
23416 7590 07/11/2008 CONNOLLY BOVE LODGE & HUTZ, LLP P O BOX 2207			EXAM	EXAMINER	
			NELSON, MICHAEL E		
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			1794		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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DETAILED ACTION

 The declaration filed 07/02/2008 has been entered and considered. However, the declaration reiterates the same arguments used in the previous after-final amendment. Since the arguments have been addressed previously, for purposes of brevity, they will not be repeated.

- 2. While opinion evidence is entitled to consideration, no objective evidence has been supplied to support the previously presented assertions. (See 716.01(c) III)

 Therefore, the opinions expressed in the declaration are not persuasive. Examiner welcomes any references or experiments which would more fully support the scope of the claims as currently written. However, given the breadth of the current claims, encompassing any and all aromatic, heteroaromatic, and substituted aromatic and heteroaromatic substituents, the showing of an unexpected result for a single compound does not support the full scope of the claims as currently presented.
- 3. Additionally, to further elaborate, concerning the issue of steric size of the substituents separate from the issue of the potential reactivity of the carbonyl center, it is noted that the benefit due to resonance stabilization of the anion radical across the aromatic system is based upon the condition where the aromatic substituent and the aromatic ring of the spirobifluorene are coplanar, through the intervening carbonyl, to allow for the charges to be delocalized across the aromatic system. However, if the aromatic substituent is very large, the planarity of the system cannot be maintained, and the carbonyl will be either coplanar with the aromatic substituent, or coplanar with the

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spirobifluorene system, but not both, resulting in a loss of the increased resonance stabilization afforded by the aromatic substituent in the first place.

- 4. In addition to the difficulty imposed by a bulky substituent on charge transfer between molecules, as discussed in the previous response, since a bulky substituent would hinder the orbital overlap of adjacent molecules required for conductivity, the issue that the planarity of the system cannot not be maintained with a bulky aromatic substituent adds a further layer of uncertainty with respect to the steric size of the substituent. Therefore, given the breadth of the current claims, the full scope cannot be supported by a single comparative example.
- Examiner further notes that Applicant has not yet addressed the issue of the number of aroyl substituents on the spirobifluorene ring system (illustrated in claims 6, 8, 9, 12, and 15), nor claims directed towards synthetic intermediates, such as claim 29.
- 6. Applicant's attention is also drawn to currently amended claims 13, 16 and 17. The claims were amended to attribute the substituent letters with the correct positions numbers. However, the hydrogen substituents are now misidentified. For example, claim 13, currently reads L=N=H, K and N are A-C=O. This would make position N both H and A-C=O. The claim should be corrected to L=M=H, and K and N are A-C=O. The analogous correction for claims 16 and 17 should be made.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL E. NELSON whose telephone number is (571)270-3453. The examiner can normally be reached on M-F 7:30am-5:00pm EST (First Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Michael E. Nelson Examiner Art Unit 1794

/Callie E. Shosho/

Supervisory Patent Examiner, Art Unit 1794